

Notice of Allowability

Application No.

10/644,726

Examiner

Rodney Amadiz

Applicant(s)

NAKANISHI, SHUICHI

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Applicants Remarks/Arguments filed June 21, 2006.
2. ☒ The allowed claim(s) is/are 1-28.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

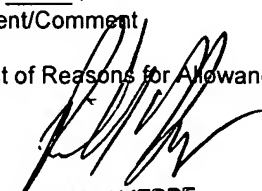
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date 10-17-03, 2-16-06
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material

5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____.
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.


RICHARD HJERPE
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600

DETAILED ACTION

Allowable Subject Matter

1. Claims 1-28 are allowed.
2. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Examiner cites the following references as pertinent to the disclosure due to their relevance with spatial light modulation.

Matsui et al.—U.S. Patent 6,281,949 (Referenced in Previous Office Action)

Walker et al.—USPGPUB 2002/0021267(Referenced in Previous Office Action)

Millward et al.—U.S. Patent 6,184,852

Ramanujan et al. U.S. Patent 6,407,766

The following is an examiner's statement of reasons for allowance: As to Claims 1 and 19, the above cited references have failed to teach: "said spatial light modulating means spatially modulates said red color light according to said video signal of a red color and at least one of said video signals of a green color and a blue color, said green color light according to said video signal of a green color and at least one of said video signals of a blue color and a red color, and said blue color light according to said video signal of a blue color and at least one of said video signals of a red color and a green color."

As to Claims 9 and 24, the above cited references have failed to teach: "wherein said light applying means is controlled so that, when luminous flux of said red color light being emitted while said spatial light modulating means is

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driven according to a video signal for a red color is expressed as P_r , when luminous flux of said green color light being emitted while said spatial light modulating means is driven according to a video signal for a green color is expressed as P_g , and when luminous flux of said blue color light being emitted while said spatial light modulating means is driven according to a video signal for a blue color is expressed as P_b , both said green color light having luminous flux of $K \times P_g$ (k being a coefficient and $0 < k \leq 1$ same as above) and said blue color light having luminous flux of $K \times P_b$ together with said red color light are applied when said spatial light modulating means is driven according to said video signal for a red color, both said blue color light having luminous flux of $K \times P_b$ and said red color light having luminous flux of $K \times P_r$ together with said green color light are applied when said spatial light modulating means is driven according to said video signal for a green color and both said red color light having luminous flux of $K \times P_r$, and said green color light having luminous flux of $K \times P_g$ together with said blue color light are applied when said spatial light modulating means is driven according to said video signal for a blue color."

As to claims 13 and 26, the above cited references have failed to teach: "said light applying means is controlled so that red color light and white color light are applied to said spatial light modulating means while said spatial light modulating means is driven according to a video signal for a red color, a green color light and a white color light are applied to said spatial light modulating means while said spatial light modulating means is driven according to a video signal for a green color, and a blue color light and a white color light are applied

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to said spatial light modulating means while said spatial light modulating means is driven according to a video signal for a blue color.”

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled “Comments on Statement of Reasons for Allowance.”

Inquiries


Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rodney Amadiz whose telephone number is (571) 272-7762. The examiner can normally be reached on M-F 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sumati Lefkowitz can be reached on (571) 272-3638. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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R.A.
8/16/06
Division 2629



RICHARD HJERPE
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600